

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/855,158

DATE: 10/03/2001  
TIME: 15:37:40

Input Set : A:\pto\_Vsk.txt  
Output Set: N:\CRF3\10032001\I855158.raw

3 <110> APPLICANT: THEILL, LARS EYDE  
4 YU, GANG  
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70,  
BCMA, BLYS/AGP-

7 3, AND TACI  
9 <130> FILE REFERENCE: A-686A  
11 <140> CURRENT APPLICATION NUMBER: US 09/855,158

C--> 12 <141> CURRENT FILING DATE: 2001-09-11  
14 <150> PRIOR APPLICATION NUMBER: US 60/214,591

15 <151> PRIOR FILING DATE: 2000-06-27  
17 <150> PRIOR APPLICATION NUMBER: US 60/204,039

18 <151> PRIOR FILING DATE: 2000-05-12  
20 <160> NUMBER OF SEQ ID NOS: 30

22 <170> SOFTWARE: PatentIn version 3.1  
24 <210> SEQ ID NO: 1

25 <211> LENGTH: 1465

26 <212> TYPE: DNA

27 <213> ORGANISM: Homo sapiens

29 <400> SEQUENCE: 1

30 gccaaccttc cctccccc aa cctggggcc gccccagggt tctgcgac tgctgttcc 60  
32 tctgggtgt cactggcagc cctgtccttc ctagaggagc tggaacctaa ttctcctgag 120  
34 gctgaggag ggtggagggt ctcaaggcaa cgctggcccc acgacggagt gccaggagca 180  
36 ctaacagtac ccttagcttg ctttctcct cctcctttt tattttcaag ttcttttta 240  
38 tttctccttg cgtacaacc ttcttccct ctgcaccact gcccgtaacc ttaccgccc 300  
40 cgccacctcc ttgtacccc actcttgaa ccacagctgt tggcagggtc cccagctcat 360  
42 gccagctca tctcctttt tgtagcccc caaaggcct ccaggcaaca tggggggccc 420  
44 agtcagagag ccggcactct cagttgccct ctggttgagt tggggggcag ctctgggggc 480  
46 cgtggctgt gccatggctc tgctgaccca acaaacagag ctgcagagcc tcaggagaga 540  
48 ggtgagccg ctgcagggga caggaggccc ctcccagaat gggaagggt atccctggca 600  
50 gagtctccg gagcagagt ccgatgccct ggaagcctg gagagtggg agagatccc 660  
52 gaaaaggaga gcagtgtca ccaaaaaa gaagaagcag cactctgtcc tgcacctgt 720  
54 tcccattaac gccacctca aggatgactc cgatgtgaca gaggtgatgt ggcaaccagc 780  
56 tcttagcgt gggagaggcc tacaggccca aggatattgt gtccgaatcc aggatgctg 840  
58 agtttatctg ctgtatagcc aggtcctgtt tcaagacgtg actttcacca tgggtcaggt 900  
60 ggtgtctcga gaaggccaag gaaggcagga gactctatc cgatgtataa gaagtatgcc 960  
62 ctcccaccg gaccgggccc acaacagctg ctatagcgca ggtgtcttc atttacacca 1020  
64 aggggatatt ctgagtgtca taattcccgg ggcaaggcg aaacttaacc tctctccaca 1080  
66 tggaaccttc ctgggggttg tgaactgtg attgtgttat aaaaagtggc tcccagcttg 1140  
68 gaagaccag gttgggtacat actggagaca gccaagagct gagtatataa aggagaggga 1200  
70 atgtgcagga acagaggcgt cttcctgggt ttggctcccc gtctcact tttcctttt 1260  
72 cattcccacc cctagactt tgattttacg gatattctgc ttctgttccc catggagctc 1320  
74 cgaattcttg cgtgtgtgta gatgaggggc gggggacggg cgccaggcat tgttcagacc 1380  
76 tggtcggggc cactggaag catccagaac agcaccacca tctaacggcc gctcgaggga 1440  
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81 <210> SEQ ID NO: 2

82 <211> LENGTH: 233

83 <212> TYPE: PRT

84 <213> ORGANISM: Homo sapiens

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86 <400> SEQUENCE: 2  
 88 Met Gly Gly Pro Val Arg Glu Pro Ala Leu Ser Val Ala Leu Trp Leu  
 89 1 5 10 15  
 92 Ser Trp Gly Ala Ala Leu Gly Ala Val Ala Cys Ala Met Ala Leu Leu  
 93 20 25 30  
 96 Thr Gln Gln Thr Glu Leu Gln Ser Leu Arg Arg Glu Val Ser Arg Leu  
 97 35 40 45  
 100 Gln Gly Thr Gly Gly Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp Gln  
 101 50 55 60  
 104 Ser Leu Pro Glu Gln Ser Ser Asp Ala Leu Glu Ala Trp Glu Ser Gly  
 105 65 70 75 80  
 108 Glu Arg Ser Arg Lys Arg Arg Ala Val Leu Thr Gln Lys Gln Lys Lys  
 109 85 90 95  
 112 Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys Asp  
 113 100 105 110  
 116 Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg Gly  
 117 115 120 125  
 120 Arg Gly Leu Gln Ala Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala Gly  
 121 130 135 140  
 124 Val Tyr Leu Leu Tyr Ser Gln Val Leu Phe Gln Asp Val Thr Phe Thr  
 125 145 150 155 160  
 128 Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr Leu  
 129 165 170 175  
 132 Phe Arg Cys Ile Arg Ser Met Pro Ser His Pro Asp Arg Ala Tyr Asn  
 133 180 185 190  
 136 Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile Leu  
 137 195 200 205  
 140 Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro His  
 141 210 215 220  
 144 Gly Thr Phe Leu Gly Phe Val Lys Leu  
 145 225 230

148 &lt;210&gt; SEQ ID NO: 3

149 &lt;211&gt; LENGTH: 1486

150 &lt;212&gt; TYPE: DNA

151 &lt;213&gt; ORGANISM: Mus musculus

153 &lt;400&gt; SEQUENCE: 3

154 catgccgagt gctttgtgtg tgttacctgc tctaagaagc tggtctgggca gcgtttcacc 60  
 156 gctgtggagg accagtatta ctgcgtggat tgctacaaga actttgtggc caagaagtgt 120  
 158 gctggatgca agaaccat cactgggttt ggtaaaggct ccagtgtggt ggcctatgaa 180  
 160 ggacaatcct ggcacgacta ctgcttcac tgcaaaaat gctccgtgaa tctggccaac 240  
 162 aagcgctttg tatttcataa tgagcagggtg tattgccctg actgtgccaa aaagctgtaa 300  
 164 cttgacggct gccctgtcct tcctagataa tggcaccaaa ttctcctgag gctagggggg 360  
 166 aaggagtgtc agagtgtcac tagctcgacc ctggggacaa gggggactaa tagtacccta 420  
 168 gcttgatttc ttctattct caagttcctt tttatttctc ccttgcgtaa cccgctcttc 480  
 170 ccttctgtgc ctttgctgtg attccacccc tccctgttac ctcttgccca cctcattctt 540  
 172 gagaccacag ctgttggcag ggctccctagc tcatgccagc ctcattccca ggccacatgg 600  
 174 ggggctcagt cagagagcca gccctttcgg ttgctctttg gttgagttgg ggggcagttc 660  
 176 tgggggctgt gactgtgtgt gtcgcactac tgatccaaca gacagagctg caaagcctaa 720  
 178 ggcgggaggt gagccggctg cagcggagtg gagggccttc ccagaagcag ggagagcgcc 780

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180 catggcagag cctctgggag cagagtcctg atgtcctgga agcctggaag gatggggcga      840
182 aatctcggag aaggagagca gtactcaccg agaagcaca gaagaagcac tcagtcctgc      900
184 atcttggtcc agttaacatt acctccaagg actctgacgt gacagagggtg atgtggcaac      960
186 cagtacttag gcgtgggaga ggcttgaggg ccaggggaga cattgtacga gtctgggaca    1020
188 ctggaattta tctgtcttat agtcagggtcc tgtttcatga tgtgactttc acaatgggtc    1080
190 aggtggtatc tcgggaagga caaggagaaa gagaaactct attccgatgt atcagaagta    1140
192 tgccttctga tcctgaccgt gcctacaata gctgctacag tgcagggtgtc ttctatttac    1200
194 atcaagggga tattatcact gtcaaaattc cacgggcaaa cgcaaaactt agcctttctc    1260
196 cgcattggaac attcctgggg tttgtgaaac tatgattgtt ataaaggggg tggggatttc    1320
198 ccattccaaa aactggctag acaaaggaca aggaacgggtc aagaacagct ctccatggct    1380
200 ttgccttgac tgttggttct ccctttgcct ttcccgctcc cactatctgg gctttgactc    1440
202 catggatatt aaaaaagtag aatattttgt gtttatctcc caaaaa      1486

205 <210> SEQ ID NO: 4
206 <211> LENGTH: 240
207 <212> TYPE: PRT
208 <213> ORGANISM: Mus musculus
210 <400> SEQUENCE: 4
212 Met Pro Ala Ser Ser Pro Gly His Met Gly Gly Ser Val Arg Glu Pro
213 1 5 10 15
216 Ala Leu Ser Val Ala Leu Trp Leu Ser Trp Gly Ala Val Leu Gly Ala
217 20 25 30
220 Val Thr Cys Ala Val Ala Leu Leu Ile Gln Gln Thr Glu Leu Gln Ser
221 35 40 45
224 Leu Arg Arg Glu Val Ser Arg Leu Gln Arg Ser Gly Gly Pro Ser Gln
225 50 55 60
228 Lys Gln Gly Glu Arg Pro Trp Gln Ser Leu Trp Glu Gln Ser Pro Asp
229 65 70 75 80
232 Val Leu Glu Ala Trp Lys Asp Gly Ala Lys Ser Arg Arg Arg Ala
233 85 90 95
236 Val Leu Thr Gln Lys His Lys Lys Lys His Ser Val Leu His Leu Val
237 100 105 110
240 Pro Val Asn Ile Thr Ser Lys Asp Ser Asp Val Thr Glu Val Met Trp
241 115 120 125
244 Gln Pro Val Leu Arg Arg Gly Arg Gly Leu Glu Ala Gln Gly Asp Ile
245 130 135 140
248 Val Arg Val Trp Asp Thr Gly Ile Tyr Leu Leu Tyr Ser Gln Val Leu
249 145 150 155 160
252 Phe His Asp Val Thr Phe Thr Met Gly Gln Val Val Ser Arg Glu Gly
253 165 170 175
256 Gln Gly Arg Arg Glu Thr Leu Phe Arg Cys Ile Arg Ser Met Pro Ser
257 180 185 190
260 Asp Pro Asp Arg Ala Tyr Asn Ser Cys Tyr Ser Ala Gly Val Phe His
261 195 200 205
264 Leu His Gln Gly Asp Ile Ile Thr Val Lys Ile Pro Arg Ala Asn Ala
265 210 215 220
268 Lys Leu Ser Leu Ser Pro His Gly Thr Phe Leu Gly Phe Val Lys Leu
269 225 230 235 240
272 <210> SEQ ID NO: 5
273 <211> LENGTH: 181

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274 <212> TYPE: PRT
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 5
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284 20 25 30
287 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
288 35 40 45
291 Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile Ile Ser
292 50 55 60
295 Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile Ser Ser Glu
296 65 70 75 80
299 Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu Leu Gly Met
300 85 90 95
303 Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu Ile Ile Leu
304 100 105 110
307 Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys Glu Asp Cys
308 115 120 125
311 Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe Pro Leu Pro
312 130 135 140
315 Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys Thr Asn Asp
316 145 150 155 160
319 Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu Ile Glu Lys
320 165 170 175
323 Ser Ile Ser Ala Arg
324 180
327 <210> SEQ ID NO: 6
328 <211> LENGTH: 51
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens
332 <400> SEQUENCE: 6
334 Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His
335 1 5 10 15
338 Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu
339 20 25 30
342 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
343 35 40 45
346 Thr Asn Ala
347 50
350 <210> SEQ ID NO: 7
351 <211> LENGTH: 34
352 <212> TYPE: PRT
353 <213> ORGANISM: Homo sapiens
355 <400> SEQUENCE: 7
357 Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro
358 1 5 10 15
361 Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
362 20 25 30

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365 Tyr Cys
369 <210> SEQ ID NO: 8
370 <211> LENGTH: 21
371 <212> TYPE: PRT
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 8
376 Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile Ile Ser Leu Ala Val
377 1 5 10 15
380 Phe Val Leu Met Phe
381 20
384 <210> SEQ ID NO: 9
385 <211> LENGTH: 283
386 <212> TYPE: PRT
387 <213> ORGANISM: Homo sapiens
389 <400> SEQUENCE: 9
391 Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His
392 1 5 10 15
395 Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu
396 20 25 30
399 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
400 35 40 45
403 Thr Asn Ala Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro
404 50 55 60
407 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
408 65 70 75 80
411 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
412 85 90 95
415 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
416 100 105 110
419 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
420 115 120 125
423 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
424 130 135 140
427 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
428 145 150 155 160
431 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
432 165 170 175
435 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
436 180 185 190
439 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
440 195 200 205
443 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
444 210 215 220
447 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
448 225 230 235 240
451 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
452 245 250 255
455 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
456 260 265 270

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/855,158

DATE: 10/03/2001  
TIME: 15:37:41

Input Set : A:\pto\_Vsk.txt  
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22